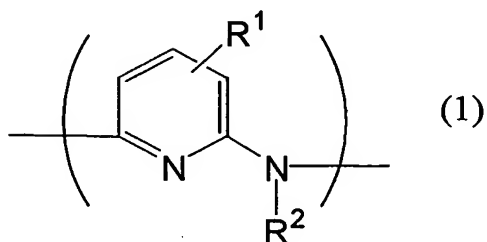


CLAIMS

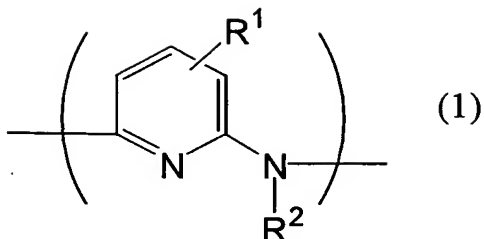
1. Polyaminopyridines having a repetition structural unit represented by the following general formula (1);



(wherein R¹ represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R² represents a phenyl group optionally having a substituent or a pyridyl group optionally having a substituent) and having a number average molecular weight in a range of 500 to 1000000.

2. The polyaminopyridines according to claim 1, wherein R¹ is a hydrogen atom, and R² is a phenyl group or a pyridyl group in the general formula (1).

3. Polyaminopyridines having a repetition structural unit represented by the following general formula (1);



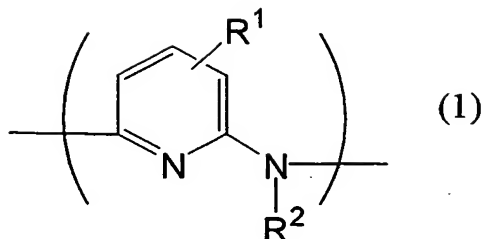
(wherein R^1 represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R^2 represents a pyrimidyl group optionally having a substituent, a naphthyl group optionally having a substituent or a quinolyl group optionally having a substituent) and having a number average molecular weight in a range of 500 to 1000000.

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4. The polyaminopyridines according to claim 3, wherein R^1 is a hydrogen atom, and R^2 is a pyrimidyl group, a naphthyl group or a quinolyl group in the general formula (1).

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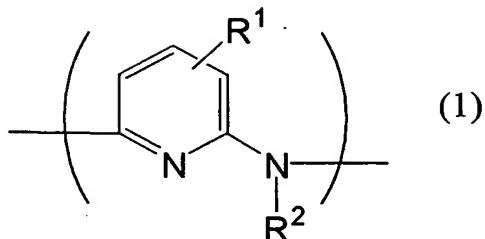
5. Polyaminopyridines having a repetition structural unit represented by the following general formula (1);



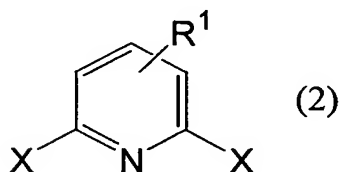
(wherein R^1 represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R^2 represents an anthryl group optionally having a substituent,
 5 or a pyrenyl group optionally having a substituent)
 and having a number average molecular weight in a range of 500 to 1000000.

6. The polyaminopyridines according to claim 5, wherein
 10 R^1 is a hydrogen atom, and R^2 is an anthryl group or a pyrinyl group in a general formula (1).

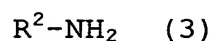
7. A process for preparing polyaminopyridines having a repetition structural unit represented by the following
 15 general formula (1);



(wherein R^1 represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, and an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R^2 represents a phenyl group optionally having a substituent or a pyridyl group optionally having a substituent) and having a number average molecular weight in a range of 500 to 1000000, which comprises reacting 2,6-dihologenopyridines represented by the following general formula (2);



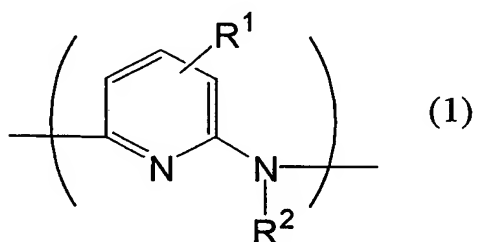
(wherein R^1 is as defined in the general formula (1), and X represents a halogen atom) and an aromatic amine compound represented by the following general formula (3);



(wherein R^2 is as defined in the general formula (1))

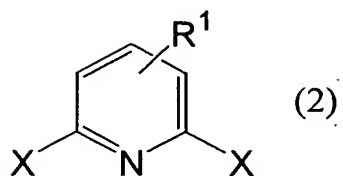
using a palladium compound and a phosphine compound as a catalyst in the presence of a base.

8. A process for preparing polyaminopyridines having a repetition structural unit represented by the following general formula (1);



(wherein R^1 represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R^2 represents a pyrimidyl group optionally having a substituent, a naphthyl group optionally having a substituent or a quinolyl group optionally having a substituent)

and having a number average molecular weight in a range of 500 to 1000000, which comprises reacting 2,6-dihalogenopyridines represented by the following general formula (2);



(wherein R^1 is as defined in the general formula (1), and X represents a halogen atom)

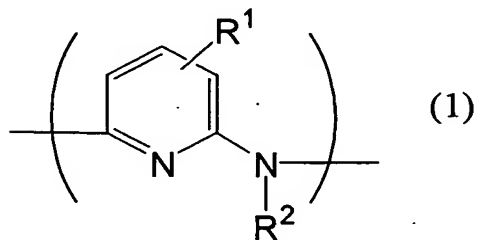
and an aromatic amine compound represented by the general formula (3);



(wherein R^2 is as defined in the general formula (1))

using a palladium compound and a phosphine compound as a catalyst in the presence of a base.

- 10 9. A process for preparing polyaminopyridines having a repetition structural unit represented by the following general formula (1);

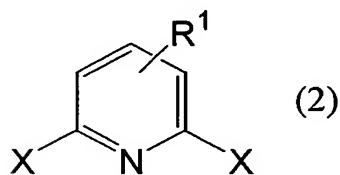


(wherein R^1 represents a hydrogen atom, an alkyl group of a carbon number of 1 to 10, an alkoxy group, an alkanoyl group, a carbamoyl group or a cyano group, and R^2

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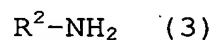
represents an anthryl group optionally having a substituent
 or a pyrenyl group optionally having a substituent)
 and having a number average molecular weight in a range of
 500 to 1000000, which comprises reacting 2,6-

5 dihalogenopyridines represented by the following general
 formula (2);



(wherein R^1 is as defined in the general formula (1), and X
 represents a halogen atom)

and an aromatic amine compound represented by the following
 10 general formula (3);



(wherein R^2 is as defined in the general formula (1))

using a palladium compound and a phosphine compound as a
 catalyst in the presence of a base.